

Special Issue

Alternative Splicing: From Biological Functions to Human Disease to Therapeutic Targeting

Message from the Guest Editor

Alternative splicing (AS) is a key post-transcriptional mechanism that enables a single gene to produce multiple protein isoforms, contributing to transcriptome and proteome diversity. Since AS occurs in more than 95% of human genes, it plays an essential role in development, differentiation, and tissue homeostasis. Dysregulation of AS is associated with numerous diseases, including cancer, neurological, and metabolic disorders, making it an important therapeutic target. This Special Issue welcomes original research and review articles on:

- Molecular mechanisms regulating alternative splicing;
- The role of aberrant splicing in human diseases;
- Novel technologies for splice variant detection and analysis;
- Therapeutic strategies targeting splicing, including antisense oligonucleotides and small-molecule modulators.

Guest Editor

Dr. Elisabetta Morini

Department of Neurology, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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